



AVOX Systems

Assemblies  
Cylinder, Regulator, Valve

## 27660 Series Oxygen Regulator Assembly



The AVOX Systems 27660 Series Regulator is a pressure-reducing regulator for use in oxygen breathing systems. It is designed to maintain a constant, preset outlet pressure when used with a variable high pressure oxygen source (150 to 2,000 psig). It can be directly mounted on the oxygen cylinder valves, or remotely mounted in high pressure lines.

The relief valve vents outlet pressures in excess of 100-110 psig and resets at pressures below 100 psig. The 27660 Regulator has been exhaustively tested through 1,000,000 cycles.

### Outstanding Features

- Operating temperature range: -65°F to +160°F
- Compact design weighs only .78 lbs. without fittings
- Proof tested to 3,000 psig
- Internal design of all 27660 Series Regulators is identical
- Inlet and outlet regulator body ports per AND 10050-5
- Conforms to Boeing spec 10-60900 and Douglas spec 7956952

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## 27660 Series Oxygen Regulator Assembly

### Ordering Information

AVOX P/N	Max. Weight (lbs.)	Operating Pressure (psig)	Regulated Pressure (psig)	CGA 540 Fitting	Boeing P/N Douglas P/N
27660-02	.78	1800	50-75		BAC 10-60900-6
27660-03	.78	1800	50-75		
27660-05	1.20	1800	50-75	X	BAC 10-60900-4 DAC 7956952-1
27660-06	1.20	1800	50-75	X	BAC 10-60900-8
27660-07	.78	1800	60-85		
27660-08	.78	1800	60-85		BAC 10-60900-9
27660-09	.78	1800	40-65		
27660-15	.78	1800	60-85		BAC 10-60900-10
27660-17	1.20	1850	70-94	X	DAC 7956952-505
27660-19	1.20	1800	60-85	X	DAC 7956952-507
27660-21	1.20	1800	60-85	X	DAC 7956952-509
27660-23	.78	2000	70-94		BAC 10-60900-11

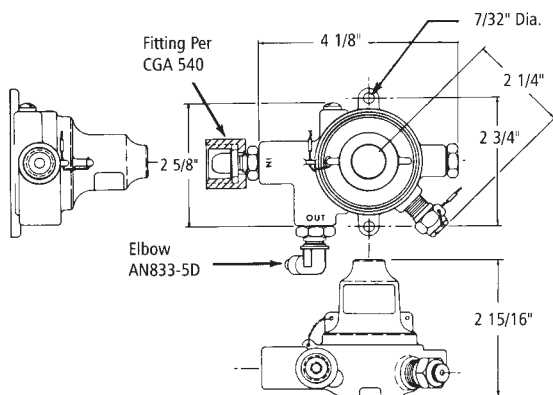
### Specifications

Material	
Body	Aluminum Forging
Metal Parts	Aluminum and Stainless Steel
Diaphragm	Silicon Rubber
Valve Seat	KEL-F81
Weight	0.75 lb. (340g) Less Fittings
Operating Temperature Range	-65°F to +160°F
Operating Media	Oxygen
Inlet Pressure	150 to 2,000 psig
Outlet Pressure	(See Chart)
Vibration	10 g
Proof Pressure	3,000 psig
Inlet Port per	AND 10050-5
Outlet Port per	AND 10050-5
Endurance	1,000,000 Cycles

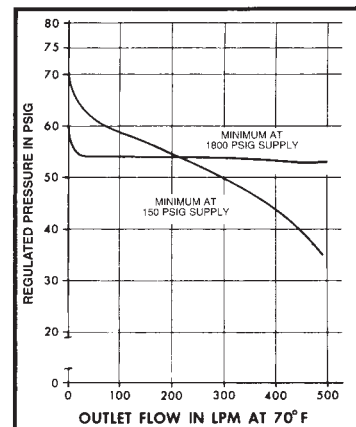
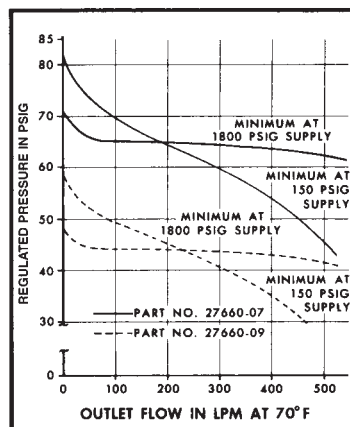
### Application

The pressure reducer is adapted to any oxygen system requiring a constant system pressure for those valves shown in the pressure charts below.

Pressure Charts show output pressure from no flow condition through a range of 0 to 500 lpm at maximum supply pressure (1,800 psig) to minimum supply pressure (empty bottle).



27660-05 SHOWN



27660-02, -03 & -05

### WARNING

IMPROPER USE OR MAINTENANCE OF THIS APPARATUS MAY RESULT IN INJURY OR DEATH. ANY SERVICE OR OVERHAUL SHALL BE DONE ONLY BY THOSE FACILITIES EXPERIENCED IN, OR BY PERSONNEL KNOWLEDGEABLE IN, HIGH PRESSURE AVIATION OXYGEN. CONTACT AVOX SYSTEMS OR

YOUR AVOX SYSTEMS DISTRIBUTOR FOR NAMES OF AUTHORIZED SERVICE CENTERS. PERSONNEL SHOULD RECEIVE PROPER TRAINING PRIOR TO USING THIS REGULATOR. UNIT SHALL BE USED ONLY WITH AVIATOR'S BREATHING OXYGEN PER MIL-PRF-27210.